





# SPECIFICATIONS

## CELLULAR TECHNOLOGY

LTE CAT M1 (2G fall) CBDL Bands 2, 4, 1

## CASE

**DIMENSIONS** 83mm x 122.6mm x 39mm  
Includes top and bottom mounting flanges, excludes cable and connector

**WEIGHT** 272g

## ENVIRONMENT

**STORAGE TEMP** -45°C to 90°C  
**OPERATING TEMP** -40°C to 85°C while connected to main power  
-20°C to 80°C on backup battery

**RELATIVE HUMIDITY** Up to 90% non-condensing

**IP RATING** IP66K/IP67

**DROP TEST** 1 meter, 6 sides

**VEHICLE VIBRATION** SAE J1455

**VEHICLE TRANSIENT SURGES** ISO 7637 - 12/24 VDC

**ESD** 1-second pulses ±4kV direct, ±8kV indirect

**MECHANICAL SHOCK** EN 60068-2-6, 27, 29

**TEMPERATURE & HUMIDITY** EN 60068-2-14, 30

## ACCELEROMETER

16G MEMS 3-axis accelerometer

## BLUETOOTH/WIFI/NFC

**BLUETOOTH** v4.2/5.0 BLE with internal antenna (optional)

## OPTIONAL FEATURES

Bluetooth, RS485, ModBus capable

## GPS TECHNOLOGY

**LOCATION TECHNOLOGY** 56 Channel GPS (with SBAS)

**TRACKING SENSITIVITY** -162 dBm

**LOCATION ACCURACY (OPEN SKY)** +/- 2.5m (CEP)

**COLD/HOT START ACQUISITION** 29 seconds/1 second

## USER INTERFACE

**STATUS LEDS** 3 - Cellular (amber), GPS (green), Bluetooth (blue)

**ALERT(S)** Internal audible buzzer (optional)

## I/O & CONNECTORS

**DIGITAL INPUTS** 3-2 fixed bias low, 1 programmable bias

**DIGITAL OUTPUTS** 2 general purpose open collector (200mA)

**ANALOG INPUTS** 1 external ADC input (0-60 VDC)

**SERIAL INTERFACE(S)** 1 RS232 interface with power control  
1-Wire bus interface (Dallas Semiconductor)

**I/O CONNECTOR(S)** 8-wire captured sealed (limited I/O options)  
12-wire captured sealed (inc. Bluetooth)

## POWER

**BUILT-IN BATTERY** 5200 mAh rechargeable Li-Ion battery

**INPUT POWER RANGE** 6-90 VDC (12/24/48/72V vehicles)

**TRACKING MODE** <70mA average @ 12V

**IDLE MODE** <14mA average @ 12V

**NORMAL SLEEP MODE** <250µA average @ 12V

## VEHICLE INTERFACE

ISO-15765 standard CAN, J1939 CAN protocol, CAN open option

## REGULATORY APPROVALS/CERTIFICATION

FCC, IC, CE, eMark, PTCRB, GCF, SAR, RoHS compliance applicable carriers

Specifications are subject to change. Please see your Positioning Universal contact for more details.